

DESIGN OF A TWO INTERCONNECT IC CHIP FOR A RADIO FREQUENCY IDENTIFICATION TAG AND METHOD FOR MANUFACTURING SAME

ABSTRACT

An apparatus and method for attaching antennae to RFID tags is disclosed. Included is the use of RFID tags having a symmetrical interconnect system for attaching one or more antennae, such that virtually any rotational orientation of the RFID tag will result in a successful antennae attachment. Two oversized and “L” shaped gold-bumped poles can be arranged on the same side of a chip in an opposing fashion, such that at least one axis of symmetry is formed. Accordingly, virtually all rotational orientations of the chip are then acceptable when attaching a pair of opposing pole antenna leads. Alternatively, a pair of poles can be located on opposing chip surfaces, such that antenna substrates can attach to both the top and bottom of the chip to form a product “sandwich,” whereby the rotational orientation of the chip is irrelevant at an antenna attachment step